



# Aquaculture Optimisation: Environmental Control and Productivity via Scopious IoT

## Overview

Aquaculture depends on stable water conditions, but temperature, oxygen, and pH can shift quickly. Scopious gives farmers near real-time data across tanks, ponds, or marine sites to protect stock, optimise feeding, and support compliance with regional council and biosecurity requirements.

## Scopious for Aquaculture

- Monitoring of water temperature, dissolved oxygen, pH, salinity, and turbidity
- Air temperature, humidity, wind, and weather data for coastal or pond-based sites
- Near real-time alerts for low oxygen, heat stress, or water quality issues
- Dashboards with live data and historical reporting for audits and council compliance
- Integration with feeding systems, aerators, and tank management platforms

### Needs:

Farmers must closely manage water quality, oxygen, temperature, and feeding conditions, while also meeting consent obligations, biosecurity expectations, and environmental monitoring requirements.

### Solution:

Scopious continuously tracks key environmental conditions, delivering alerts and data insights to help farmers protect stock health, optimise feeding, and meet reporting standards with confidence.

### Key Benefits:

- Improves fish and shellfish health through environmental oversight
- Reduces risk of loss due to oxygen crashes or temperature spikes
- Supports consent reporting and environmental compliance
- Optimises feeding and system response through accurate timing
- Enhances sustainability with clear data on ecosystem impact
- Scales across land-based, coastal, or open water operations

**Precision  
insight.  
Healthy  
marine stock.  
Clear waters.**